

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions and listings of claims in the application:

1. (Currently Amended) A glass fiber product, comprising:

at least one glass fiber; and

particles adhered to the at least one glass fiber, wherein at least one parameter selected from the particle size and the amount of particles is effective to reduce the tackiness of the glass fiber product, wherein:

the particles have an average dimension ranging from 10 nm to 35 nm ~~or 0.5 μ m to 10 μ m~~, and wherein the particles are selected from boron nitride, molybdenum diselenide, tantalum disulfide, tantalum diselenide, tungsten disulfide, tungsten diselenide, thermoplastic polyesters, thermoplastic polyurethanes, polyethylene terephthalate, polybutylene terephthalate, acrylic polymers, polyacrylonitriles, polyolefins, polyurethanes, vinyl polymers, polyvinyl alcohol, polyesters, vinyl esters, epoxy materials, phenolics, aminoplasts, polycarbonates, and mixtures of any of the foregoing; and

the at least one glass fiber is at least partially coated with a coating, wherein the coating is a residue of a coating composition, wherein the coating composition is selected from a resin-compatible coating composition.

2. (Canceled)

3. (Original) A glass fiber product according to claim 1, wherein the glass fiber product is chosen from a glass fiber strand, a glass fiber yarn, a glass fiber prepreg, and a glass fiber fabric.

4. (Original) A glass fiber prepreg comprising a glass fiber product according to claim 1.

5. (Canceled)

6. (Previously Presented) A glass fiber product according to claim 1, wherein the particles have an average dimension ranging from 10 nm to 25 nm.

7. (Previously Presented) A glass fiber product according to claim 1, wherein the particles have an average dimension ranging from 25 nm to 35 nm.

8. (Currently Amended) A glass fiber product according to claim [[1]]76, wherein the particles have an average dimension ranging from 0.5 μm to 5 μm .

9. (Currently Amended) A glass fiber product according to claim [[1]]76, wherein the particles have an average dimension ranging from 1 μm to 10 μm .

10. (Currently Amended) A glass fiber product according to claim [[1]]76, wherein the particles have an average dimension ranging from 1 μm to 5 μm .

11-13. (Canceled)

14. (Original) A glass fiber product according to claim 1, wherein the particles have a multimodal distribution of average dimensions.

15. (Original) A glass fiber product according to claim 14, wherein the particles have a bimodal distribution of average dimensions.

16-18. (Canceled)

19. (Original) A glass fiber product according to claim 1, wherein the particles are selected from spherical particles, cubic ellipsoidal particles, and rectangular particles.

20. (Previously Presented) A glass fiber product according to claim 1, wherein the particles are present in an amount ranging from 0.5% to 60% by weight relative to a total weight of the coating.

21. (Canceled)

22. (Previously Presented) A glass fiber product according to claim 1, wherein the particles are present in an amount ranging from 0.5% to 25% by weight relative to a total weight of the coating.

23. (Previously Presented) A glass fiber product according to claim 1, wherein the particles comprise small particles having a dimension of not more than 35 nm and wherein the small particles are present in an amount ranging from 0.5% to 25% by weight relative to a total weight of the coating.

24-26. (Canceled)

27. (Previously Presented) A glass fiber product according to claim 1, wherein the particles are selected from at least one of polyethylene, polymethylmethacrylates, polystyrenes, polyamides, aramids, thermoplastic polyesters, thermoplastic polyurethanes, polyethylene terephthalate, polybutylene terephthalate, acrylic polymers, polyacrylonitriles, polyolefins, polyurethanes, vinyl polymers, polyvinyl alcohol, polyesters, vinyl esters, epoxy materials, phenolics, aminoplasts, polycarbonates, polyolefins, and mixtures of any of the foregoing.

28. (Original) A glass fiber product according to claim 1, wherein the particles comprise polymeric organic particles.

29. (Original) A glass fiber product according to claim 1, wherein the particles comprise polyethylene particles.

30 (Original) A glass fiber product according to claim 1, wherein the particles are selected from hollow particles and solid particles.

31. (Original) A glass fiber product according to claim 1, wherein the particles comprise a mixture of organic particles and inorganic particles.

32. (Original) A glass fiber product according to claim 1, wherein the particles comprise first particles and second particles, wherein the first particles differ from the second particles in at least one parameter selected from size, shape, density, organic composition, inorganic composition, hydrophilicity, hydrophobicity, lipophilicity, lipophobicity, and crystallographic structure.

33. (Original) A glass fiber product according to claim 1, wherein the at least one parameter selected from particle size and amount of particles is effective to reduce the tackiness of the glass fiber product without substantially increasing the tractive tension of the glass fiber product.

34. (Previously Presented) A glass fiber product according to claim 33, wherein the at least one parameter selected from particle size and amount of particles is

effective to reduce the tackiness of the glass fiber product without increasing the tractive tension by more than 10% at least one pressure ranging from 25 to 40 PSI.

35. (Original) A glass fiber product according to claim 1, wherein the at least one parameter selected from particle size and amount of particles is effective to reduce the frictional tension by at least 10%.

36. (Original) A glass fiber product according to claim 1, wherein the at least one parameter selected from particle size and amount of particles is effective to reduce the frictional tension by at least 25%.

37. (Canceled)

38. (Original) A glass fiber product according to claim 1, wherein the at least one parameter selected from particle size and amount of particles is effective to reduce the frictional tension by at least 50%.

39. (Original) A glass fiber product according to claim 1, wherein the at least one parameter selected from particle size and amount of particles is effective to reduce the frictional tension by at least 50 g.

40. (Original) A glass fiber product according to claim 1, wherein the at least one parameter selected from particle size and amount of particles is effective to reduce the frictional tension by at least 100 g.

41. (Canceled)

42. (Original) A glass fiber product according to claim 41, wherein a tractive tension of the fiber product is increased.

43. (Previously Presented) A glass fiber product according to claim 41, wherein a tractive tension of the fiber product is increased by at least 10 g at least one pressure ranging from 30 to 40 psi.

44. (Previously Presented) A glass fiber product according to claim 41, wherein a tractive tension of the fiber product is increased by at least 20 g at least one pressure ranging from 30 to 40 psi.

45. (Previously Presented) A glass fiber product according to claim 41, wherein a tractive tension of the fiber product is increased by at least 100% at least one pressure ranging from 30 to 40 psi.

46. (Previously Presented) A glass fiber product according to claim 41, wherein a tractive tension of the fiber product is increased by at least 150% at least one pressure ranging from 30 to 40 psi.

47. (Previously Presented) A glass fiber product according to claim 1, wherein the coating composition comprises at least 1% of dispersed particles relative to the total solids content of the coating composition.

48. (Previously Presented) A glass fiber product according to claim 1, wherein the coating composition comprises at least 2% of dispersed particles relative to the total solids content of the coating composition.

49. (Canceled)

50. (Previously Presented) A glass fiber product according to claim 1, wherein the coating composition comprises at least 5% of dispersed particles relative to the total solids content of the coating composition.

51. (Previously Presented) A glass fiber product according to claim 1, wherein the coating composition is at least one of a primary sizing, secondary sizing, tertiary sizing, and a slashing composition.

52. (Original) A glass fiber product according to claim 1, wherein the product comprises fibers selected from E-glass fibers, D-glass fibers, S-glass fibers, Q-glass fibers, E-glass derivative fibers, and mixtures of any of the foregoing.

53 - 75. (Canceled)

76. (New) A glass fiber product, comprising:
at least one glass fiber; and
particles adhered to the at least one glass fiber, wherein at least one parameter selected from the particle size and the amount of particles is effective to reduce the tackiness of the glass fiber product, wherein:

the particles have an average dimension ranging from 0.5 μm to 10 μm , and wherein the particles are selected from boron nitride, molybdenum diselenide, tantalum disulfide, tantalum diselenide, tungsten disulfide, tungsten diselenide, thermoplastic polyesters, thermoplastic polyurethanes, polyethylene terephthalate, polybutylene terephthalate, acrylic polymers, polyacrylonitriles, polyolefins, polyurethanes, vinyl polymers, polyvinyl alcohol, polyesters, vinyl esters, epoxy materials, phenolics, aminoplasts, polycarbonates, and mixtures of any of the foregoing; and

the at least one glass fiber is at least partially coated with a coating, wherein the coating is a residue of a coating composition, wherein the coating composition is selected from a resin-compatible coating composition.

77. (New) A glass fiber product according to claim 76, wherein the glass fiber product is chosen from a glass fiber strand, a glass fiber yarn, a glass fiber prepreg, and a glass fiber fabric.

78. (New) A glass fiber prepreg comprising a glass fiber product according to claim 76.

79. (New) A glass fiber product according to claim 76, wherein the particles have a multimodal distribution of average dimensions.

80. (New) A glass fiber product according to claim 79, wherein the particles have a bimodal distribution of average dimensions.

81. (New) A glass fiber product according to claim 79, wherein the distribution of average particle dimensions comprises a first maximum in the range of from 0.5 μm to 5 μm and a second maximum in the range of from 1 μm to 10 μm .

82. (New) A glass fiber product according to claim 79, wherein the distribution of average particle dimensions comprises a first maximum and a second maximum both in the range of from 0.5 μm to 10 μm .

83. (New) A glass fiber product according to claim 76, wherein the particles are selected from spherical particles, cubic ellipsoidal particles, and rectangular particles.

84. (New) A glass fiber product according to claim 76, wherein the particles are present in an amount ranging from 0.5% to 60% by weight relative to a total weight of the coating.

85. (New) A glass fiber product according to claim 76, wherein the particles are present in an amount ranging from 0.5% to 25% by weight relative to a total weight of the coating.

86. (New) A glass fiber product according to claim 76, wherein the particles are selected from at least one of polyethylene, polymethylmethacrylates, polystyrenes, polyamides, aramids, thermoplastic polyesters, thermoplastic polyurethanes, polyethylene terephthalate, polybutylene terephthalate, acrylic polymers, polyacrylonitriles, polyolefins, polyurethanes, vinyl polymers, polyvinyl alcohol, polyesters, vinyl esters, epoxy materials, phenolics, aminoplasts, polycarbonates, polyolefins, and mixtures of any of the foregoing.

87. (New) A glass fiber product according to claim 76, wherein the particles comprise polymeric organic particles.

88. (New) A glass fiber product according to claim 76, wherein the particles comprise polyethylene particles.

89. (New) A glass fiber product according to claim 76, wherein the particles are selected from hollow particles and solid particles.

90. (New) A glass fiber product according to claim 76, wherein the particles comprise a mixture of organic particles and inorganic particles.

91. (New) A glass fiber product according to claim 76, wherein the particles comprise first particles and second particles, wherein the first particles differ from the second particles in at least one parameter selected from size, shape, density, organic composition, inorganic composition, hydrophilicity, hydrophobicity, lipophilicity, lipophobicity, and crystallographic structure.

92. (New) A glass fiber product according to claim 76, wherein the at least one parameter selected from particle size and amount of particles is effective to reduce the tackiness of the glass fiber product without substantially increasing the tractive tension of the glass fiber product.

93. (New) A glass fiber product according to claim 92, wherein the at least one parameter selected from particle size and amount of particles is effective to reduce the

tackiness of the glass fiber product without increasing the tractive tension by more than 10% at least one pressure ranging from 25 to 40 PSI.

94. (New) A glass fiber product according to claim 76, wherein the at least one parameter selected from particle size and amount of particles is effective to reduce the frictional tension by at least 10%.

95. (New) A glass fiber product according to claim 76, wherein the at least one parameter selected from particle size and amount of particles is effective to reduce the frictional tension by at least 25%.

96. (New) A glass fiber product according to claim 76, wherein the at least one parameter selected from particle size and amount of particles is effective to reduce the frictional tension by at least 50%.

97. (New) A glass fiber product according to claim 76, wherein the at least one parameter selected from particle size and amount of particles is effective to reduce the frictional tension by at least 50 g.

98. (New) A glass fiber product according to claim 76, wherein the at least one parameter selected from particle size and amount of particles is effective to reduce the frictional tension by at least 100 g.

99. (New) A glass fiber product according to claim 76, wherein the at least one parameter selected from particle size and amount of particles is effective to at least one of (i) spatially separate the filaments and (ii) reduce a degree of interfilament bonding.

100. (New) A glass fiber product according to claim 99, wherein a tractive tension of the fiber product is increased.

101. (New) A glass fiber product according to claim 99, wherein a tractive tension of the fiber product is increased by at least 10 g at least one pressure ranging from 30 to 40 psi.

102. (New) A glass fiber product according to claim 99, wherein a tractive tension of the fiber product is increased by at least 20 g at least one pressure ranging from 30 to 40 psi.

103. (New) A glass fiber product according to claim 99, wherein a tractive tension of the fiber product is increased by at least 100% at least one pressure ranging from 30 to 40 psi.

104. (New) A glass fiber product according to claim 99, wherein a tractive tension of the fiber product is increased by at least 150% at least one pressure ranging from 30 to 40 psi.

105. (New) A glass fiber product according to claim 76, wherein the coating composition comprises at least 1% of dispersed particles relative to the total solids content of the coating composition.

106. (New) A glass fiber product according to claim 76, wherein the coating composition comprises at least 2% of dispersed particles relative to the total solids content of the coating composition.

107. (New) A glass fiber product according to claim 76, wherein the coating composition comprises at least 5% of dispersed particles relative to the total solids content of the coating composition.

108. (New) A glass fiber product according to claim 76, wherein the coating composition is at least one of a primary sizing, secondary sizing, tertiary sizing, and a slashing composition.

109. (New) A glass fiber product according to claim 76, wherein the product comprises fibers selected from E-glass fibers, D-glass fibers, S-glass fibers, Q-glass fibers, E-glass derivative fibers, and mixtures of any of the foregoing.